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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/542,765	07/20/2005	Koji Takao	124788	1684	
25944 OI IFF & RFR	7590 04/02/2007 RIDGE PLC	•	EXAMINER		
OLIFF & BERRIDGE, PLC P.O. BOX 19928			NGUYEN, HUNG T		
ALEXANDRIA	A, VA 22320		ART UNIT PAPER NUMBER		
		2	2612	12	
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	04/02/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	•		SK
	Application No.	Applicant(s)	
	10/542,765	TAKAO ET AL.	,
Office Action Summary	Examiner	Art Unit	
	HUNG T. NGUYEN	2612	
The MAILING DATE of this communication a	ppears on the cover sheet wit	h the correspondence addres	s
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- od will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this commu ANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 20	July 2005		
,— · · —	his action is non-final.		
3) Since this application is in condition for allow		ers, prosecution as to the me	rits is
closed in accordance with the practice unde	•		
Disposition of Claims			
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.	•		
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			,
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exami	iner.		
10)⊠ The drawing(s) filed on 20 July 2005 is/are:	a)⊠ accepted or b)⊡ object	ed to by the Examiner.	
Applicant may not request that any objection to the	he drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr	ection is required if the drawing(s) is objected to. See 37 CFR 1	.121(d).
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-1	52.
Priority under 35 U.S.C. § 119		•	
12)⊠ Acknowledgment is made of a claim for forei a)⊠ All b)☐ Some * c)☐ None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).	
1.⊠ Certified copies of the priority docume	ents have been received.	•	
2. Certified copies of the priority docume	ents have been received in Ap	oplication No	,
3. Copies of the certified copies of the pr	riority documents have been	received in this National Stag	је
application from the International Bure	eau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a li	ist of the certified copies not i	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08))/Mail Date formal Patent Application	
Paper No(s)/Mail Date 7/20/05.	6) Other:		

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 7 & 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the next sampling" in line 10. There is insufficient antecedent basis for this limitation in the claim.

Claim 7 recites the limitation "the next sampling" in line 7. There is insufficient antecedent basis for this limitation in the claim.

Claim 14 recites the limitation "the next sampling" in line 6. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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3. Claims 5 & 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Schroeter et al. (JP 10-104103) / IDS is provided by applicant filed on July 20, 2005.

Regarding claim 5, Schroeter discloses a tire information having sensors (A,B,C,D) coupled with a reception module (13) and microprocessor (18) to monitor pressure and temperature of tires [fig.1, paragraphs 0008, 0035-0036 and abstract] comprising:

- the reception module (13) having a plurality of antenna (A to N) [fig.1, paragraphs 0008-009, 0035-0036 and abstract];
- a single reception body (15) coupled with the reception module (13) [fig.1, 0008, 0035-0036 and abstract];
- the single reception body (15) coupled with the microprocessor (18) to detect the pressures and temperature has been programmed in A/D converter (16) and provide output signal to operator [fig.1, 0035-0038].

Regarding claim 9, Schroeter discloses a tire information having sensors (A,B,C,D) coupled with a reception module (13) and microprocessor (18) to monitor pressure and temperature of tires [fig.1, paragraphs 0008, 0035-0036 and abstract] comprising:

- the sensors (A,B,C,D) coupled with a reception module (13) and microprocessor (18) to monitor pressure and temperature of tires [fig.1, paragraphs 0011, 0024 and abstract];
- the reception module (13) having a plurality of antenna (A to N) [fig.1, paragraphs 0008-009, 0035-0036 and abstract];

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- a single reception body (15) coupled with the reception module (13) [fig.1, 0008, 0035-0036 and abstract];

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- the single reception body (15) coupled with the microprocessor (18) to detect the pressures and temperature has been programmed in A/D converter (16) and provide output signal to operator [fig.1, 0035-0038].

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-4, 6-8 & 10-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schroeter et al. (JP 10-104103) in view of Coulthard (U.S. 5,825,286).

Regarding claim 1, Schroeter discloses a tire information having sensors (A,B,C,D) coupled with a reception module (13) and microprocessor (18) to monitor pressure and temperature of tires [fig.1, paragraphs 0008, 0035-0036 and abstract] comprising:

- the reception module (13) having a plurality of antenna (A to N) / ports [fig.1, paragraphs 0008-009, 0035-0036 and abstract];
- a single reception body (15) coupled with the reception module (13) [fig.1, 0008, 0035-0036 and abstract];

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- the single reception body (15) coupled with the microprocessor (18) to detect the pressures and temperature has been programmed in A/D converter (16) and provide output signal to operator [fig.1, 0035-0038].

The reference of Schroeter does not specifically mention details of control means configured to sequentially output at predetermined sampling time a command of data acquisition from a sensor module and next sampling as claimed by applicant.

However, Schroeter does teach control signal is inputted into a microcontroller by the analog-digital converter (16) for corresponding recovery and it is evaluated, the operator of a car can recognize it about the measured value and warning signal of the wheel has been program with identification code and specific time interval or period of assessment [paragraphs 0029,0035-0038 and abstract].

Furthermore, Coulthard teaches vehicular data and collection and transmission system having a tire monitor (10) with analog signals are amplified and subsequently digitized in an analog to digital converter (97) and the digital data is supplied to a microprocessor and controller (110) and under program control, a record of data reception from each wheel module is made, and if no reception is made within a programmed period of time from a specific module, an indication is provided to the operator in order of priority [fig.4, col.6, line 56 to col.7, line 13 and col.18, line 57 to col.19, line 9].

Therefore, it would have been obvious to one having ordinary skill in the art to use the teaching of Coulthard in the system of Schroeter for providing the same function as desired on any object.

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Regarding claim 2, Schroeter discloses the single reception body (15) coupled with the microprocessor (18) to detect the pressures and temperature has been programmed in A/D converter (16) and provide output signal to operator [fig.1, 0038]; and

Coulthard teaches the indication is provided to the operator in order of priority if no reception is made within a programmed period of time from a specific module, [fig.4, col.18, line 57 to col.19, line 9 and col.20, lines 14-24].

Regarding claims 3-4, Schroeter discloses the tire information having sensors (A,B,C,D) coupled with a reception module (13) and microprocessor (18) to monitor pressure and temperature of tires [fig.1, paragraphs 0008, 0035-0036 and abstract].

Regarding claim 6, Schroeter discloses the tire information having amplifier device for receiving & transmitting signals [0021, 0032]; and

Coulthard discloses the tire information having amplifier device for receiving & transmitting signals [fig.4, col. col.7, lines 5-14].

Regarding claims 7-8 & 14, Coulthard teaches the vehicular data and collection and transmission system having a tire monitor (10) with analog signals are amplified and subsequently digitized in an analog to digital converter (97) and the digital data is supplied to a microprocessor and controller (110) and under program control, a record of data reception from each wheel module is made, and if no reception is made within a

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programmed period of time from a specific module, an indication is provided to the operator in order of priority [fig.4, col.6, line 56 to col.7, line 13 and col.18, line 57 to col.19, line 9].

Regarding claims 10-11 & 15, Schroeter discloses the tire information having sensors (A,B,C,D) coupled with a reception module (13) and microprocessor (18) to monitor pressure and temperature of tires [fig.1, paragraphs 0008, 0035-0036 and abstract];

- the reception module (13) having a plurality of antenna (A to N) / ports [fig.1, paragraphs 0008-009, 0035-0036 and abstract].
- the tire information having amplifier device for receiving & transmitting signals [0021,
 0032]; and

Coulthard discloses the tire information having amplifier device for receiving & transmitting signals [fig.4, col. col.7, lines 5-14].

Regarding claims 12-13, Schroeter discloses the tire information having sensors (A,B,C,D) coupled with a reception module (13) and microprocessor (18) to monitor pressure and temperature of tires [fig.1, paragraphs 0008, 0035-0036 and abstract].

Conclusion

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6. The prior art made of record and not relied upon is considered pertinent to

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applicant's disclosure.

Handfield et al. (U.S. 5,540,092).

- Kulka et al. (U.S. 6,087,930).

- Derbyshire et al. (U.S. 6,271,748).

- Konchin et al. (U.S. 6,362,732).

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hung T. Nguyen whose telephone number is (571) 272-

2982. The examiner can normally he reached on Monday to Friday from 9:00 am to

6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hofsass, Jeffrey can be reached on (571) 272-2981. The fax phone number

for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Group receptionist whose telephone number is

(703) 305-4700.

HUNG NGUYEN PRIMARY EXAMINER

Examiner: Hung T. Nguyen

Date: Mar. 28, 2007